

Work Order ID 163504

Tuesday, June 27, 2017 1:25:32 PM

163504

Page 1

Item ID: 647.7501

Revision ID:

Item Name: Lower Cutter Assembly

Start Date: 6/27/2017 Start Qty: 2.00

Required Date: 7/3/2017 Req'd Qty: 2.00

Reference:

647.7501
B163504
REV. A

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Cust Item ID:

Customer:

Approvals: Process Plan: DAS Date: JUN 28 2017 Tooling: _____ Date: _____
QC: 9-89 Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
647.7500	A

110 Pick Kit 0.00

110

Packaging Memo 0.00

Packaging

2 DAS
6
9-89 JUL 16 2017

120 0.00

120

Small Fab Memo 1.86

Small Fab

Assemble as per dwg and apply loctite 598 on all faying surfaces per note 2.

A/R RTV LOCTITE 598: 137797
exp. date: 07/19

2x DAS
36
9-89 17/07/27

130 QC5- Inspect part completeness to step on W/O 0.00

130

QC Memo 0.04

Quality Control

2 DAS
38
9-89 JUL 28 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

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Page 2

Item ID: 647.7501

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Lower Cutter Assembly

Start Date: 6/27/2017 Start Qty: 2.00

2

Cust Item ID:

Required Date: 7/3/2017 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Identify as per dwg & Stock Location <i>cdkool</i>	0.00							
140									
Packaging	Memo	0.02			<i>2</i> DAS 6 9-89				
Packaging	***IDENTIFY AS PER APICAL MPP-120 BY STAMPING THE P# AND REV***								
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	0.20							
Quality Control									

JUL 31 2017

*17/7/31*DAS
21
9-89

JUL 31 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
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Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐				Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐													
		OTHER : ☐																							

Picklist Print

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Page 1

Work Order ID: 163504

163504

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 6/27/2017

Required Date: 7/3/2017

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 12.10.04 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7813 *647 7813* Center Plate, Lower		Manufactured	No			110	Each	6.0000	1	2	DAS 6 9-89	JUL 16 2017	
									**				
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				CCK114				6					
				159558				6					
647.7810 *647 7810* Bracket A		Manufactured	No			110	Each	0.0000	1	2	DAS 6 9-89	JUL 16 2017	
									**				
647.7811 *647 7811* Bracket B		Manufactured	No			110	Each	0.0000	1	2	DAS 6 9-89	JUL 16 2017	
									**				
646.3015 *646 3015* Blade		Manufactured	No			110	Each	9.0000	2	4	DAS 6 9-89	JUL 16 2017	
									**				
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				cck103				9					
				160180				9					
647.7601 *647 7601* Lower Deflector Assembly		Manufactured	No			110	Each	1.0000	1	2	DAS 6 9-89	JUL 16 2017	
									**				
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				cck065				1					
				162089				1					

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
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Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

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Work Order ID: 163504

163504

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 6/27/2017

Required Date: 7/3/2017

Start Qty: 2.00

Required Qty: 2.00

647.7815 Manufactured No

110 Each 6.0000 1 2

647 7815

Fwd Bracket

**

DAS
6
9-89
JUL 16 2017

Location Loc Qty Loc Code

CCK114 6

159548 6

647.7814 Manufactured No

110 Each 5.0000 1 2

647 7814

Fwd Bracket

**

DAS
6
9-89
JUL 16 2017

Location Loc Qty Loc Code

CCK114 5

159552 5

647.7816 Manufactured No

110 Each 2.0000 1 2

647 7816

Aft Bracket

**

DAS
6
9-89
JUL 16 2017

Location Loc Qty Loc Code

CCK114 2

153618 2

647.7817 Manufactured No

110 Each 5.0000 1 2

647 7817

Aft Bracket

**

DAS
6
9-89
JUL 16 2017

Location Loc Qty Loc Code

CCK115 5

159551 5

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Shop Packet Print

Page 2

DQA: _____ Date: _____

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QA Closed: _____ Date: _____

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Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
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Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																		
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Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

Picklist Print

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Work Order ID: 163504

163504

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 6/27/2017

Required Date: 7/3/2017

Start Qty: 2.00

Required Qty: 2.00

NAS1149FN832P

Purchased

No

110

Each

2,530.000

26

52

NAS1149FN832P

Washer

**

JUL 16 2017

64.5

Location

Loc Qty

Loc Code

GA

358

M135058

208

M136182

40

M136866

110

ST260a

1500

M137820

1500

ST263

672

M137412

672

MS21042-3

MS21042L3

Purchased

No

110

Each

0.0000

3

6

MS21042-3

Nut

**

JUL 16 2017 DAS 6 8-89

137788

MS21042-08

MS21042L08

Purchased

No

110

Each

0.0000

13

26

MS21042-08

USE MS21042L08

**

JUL 16 2017 DAS 6 8-89

137734

NAS1149F0332P

Purchased

No

110

Each

2,236.000

6

12

NAS1149F0332P

Washer

**

JUL 16 2017 DAS 6 9-89

Location

Loc Qty

Loc Code

GA

275

m133709

275

ST262

1961

m137710

1961

12

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Shop Packet Print

Page 3

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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								Lead hand / Supervisor Approval Verification	
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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
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Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
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Work Order ID: 163504

163504

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 6/27/2017

Required Date: 7/3/2017

Start Qty: 2.00

Required Qty: 2.00

MS27039-08-19

Purchased

No

110

Each

283.0000

7

14

MS27039-08-19

Screw

**

DAS

6

9-89

JUL 16 2017

Location

Loc Qty

Loc Code

GA

30

m135948

26

m137178

4

ST277

253

m137464

153

m137851

100

14

MS27039-1-19

Purchased

No

110

Each

283.0000

3

6

MS27039-1-19

Screw

**

DAS

6

9-89

JUL 16 2017

Location

Loc Qty

Loc Code

GA

80

m134134

80

ST280

203

m137361

203

6

MS27039-08-24

Purchased

No

110

Each

141.0000

6

12

MS27039-08-24

Screw (MS27039-0824)

**

DAS

6

9-89

JUL 16 2017

Location

Loc Qty

Loc Code

GA

115

124326

115

ST277

26

124326

26

12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

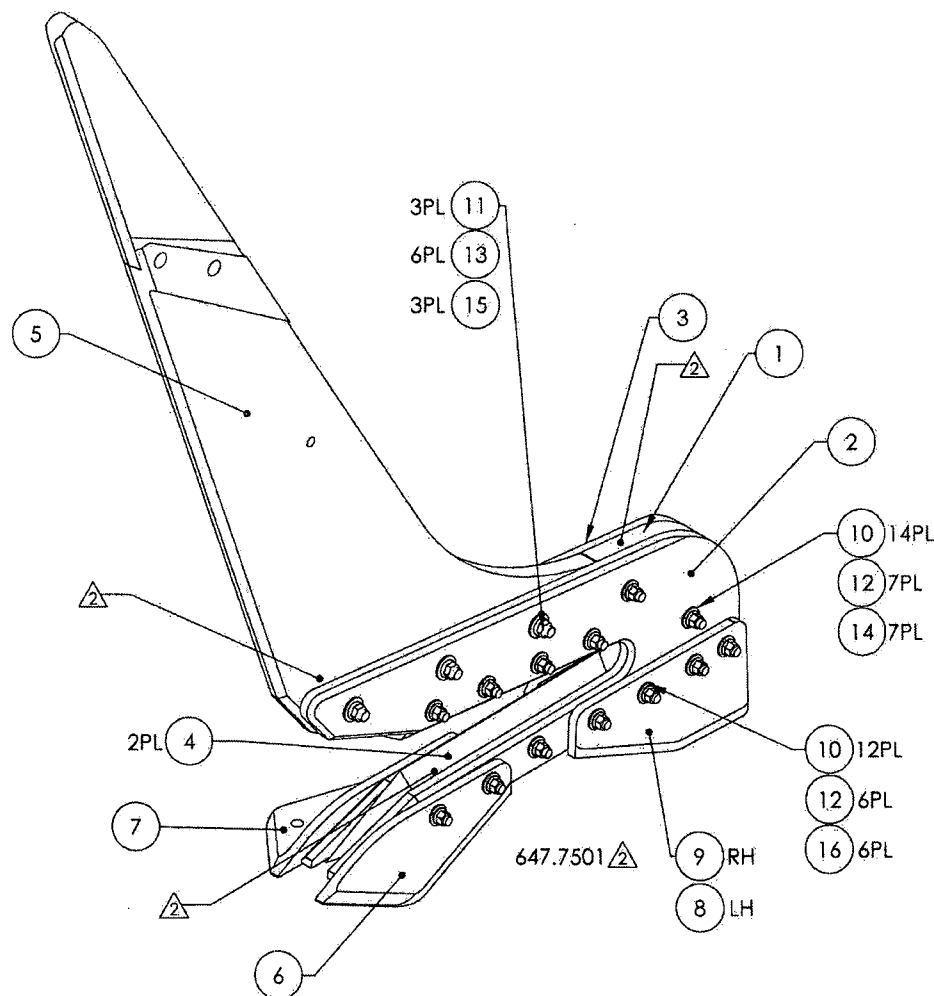
QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

NOTES:

1. IDENTIFY IAW MPP-120
2. APPLY F/N 17 AS REQUIRED TO ALL FAYING SURFACES UPON ASSEMBLY



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR2		N/C
N/C	INITIAL RELEASE	12-21-09	P. BRAVO
A	INCORPORATED ECN 02940	07-14-10	P. BRAVO

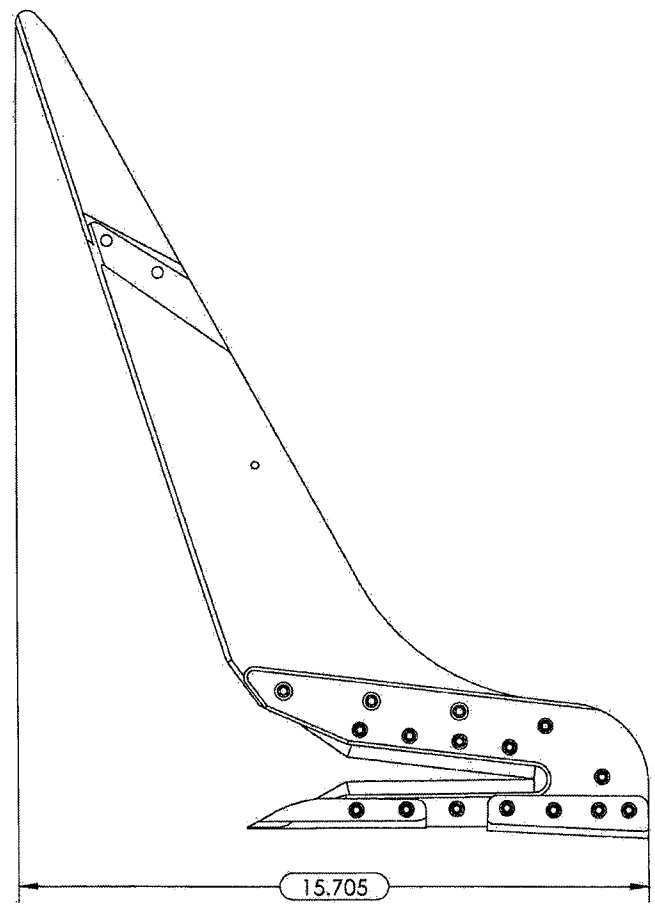
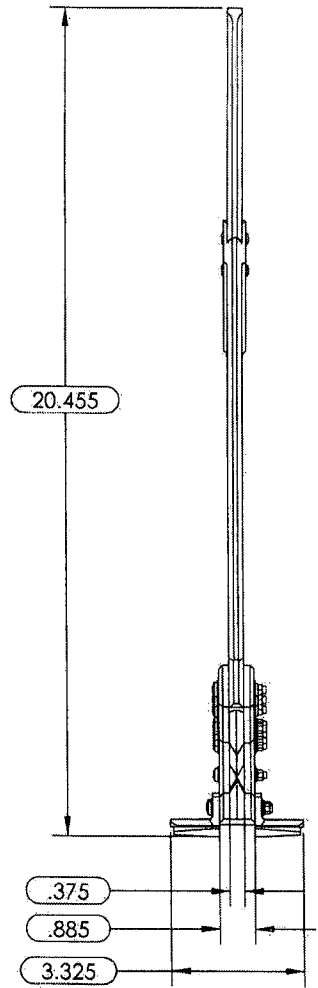
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RETURN TO
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UNCONTROLLED COPY
SUBJECT TO AMENDMENT

WITHOUT NOTICE
WORK ORDER
NO. 163504 M-5 17 06-28

A/R	17	601.2045	RTV; LOCITE 598		
6	16	601.3124	SCREW	MS27039-0824	
3	15	601.1948	SCREW	MS27039-1-19	
7	14	601.2765	SCREW	MS27039-0819	
6	13	601.1607	WASHER	NAS1149F0332P	
13	12	601.2973	LOCKNUT	MS21042-08	
3	11	601.2943	LOCKNUT	MS21042-3	
26	10	601.2764	WASHER	NAS1149FN832P	
1	9	647.7817	AFT BRACKET		
1	8	647.7816	AFT BRACKET		
1	7	647.7814	FORWARD BRACKET		
1	6	647.7815	FORWARD BRACKET		
1	5	647.7601	LOWER DEFLECTOR ASSY		
2	4	646.3015	BLADE		
1	3	647.7811	BRACKET B		
1	2	647.7810	BRACKET A		
1	1	647.7813	CENTER PLATE LOWER		
		647.7501	LOWER CUTTER ASSY		
7501	FIND #	PART #	DESCRIPTION	MAT'L	SPEC

QTY	PARTS LIST	
NEXT ASSY (S)	ORIGINAL DATE MO-DAY-YR	ISSUED BY
647.7300	CRAWLEY B	KROEGER
	A. GILMAN	P. BRAYVO
	DRAWING APPROVAL	
	DATE	
	CONTRACT NO.	
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .003 3 PLACE DECIMALS 1.00 ANGLES .5°	
	ITEM	CAGE CODE
	B	07M26
	SCALE	NONE
	DWG. NO.	647.7500
	SHEET	1 OF 2

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ORIGINAL DATE (MM-DD-YY) 11-24-07		APICAL INDUSTRIES	
DRAWN BY A. QUINN		2608 TEMPLE HEIGHTS DR, OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CHECKED BY P. BRAVO		LOWER CUTTER ASSY	
DRAWING APPROVAL 11-21-07		SEE (CART CODE) DWG. NO. 647.7500	
CONTRACT NO.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.010 ANGLES ±.5°		REV. A	
		SHEET 2 OF 2	